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<u>Claims</u>

1. A pharmaceuticals characterized by general formula (i)

Z-L-V (i)

wherein

V denotes a peptide with a binding sequence -X¹-X²-Val-Tyr-lle-His-Pro-X⁸-X⁸-X¹⁰, L denotes bond or a linker.

Z denotes a group that optionally can carry an imaging moiety M,

X¹ denotes-NY₁-(CH₂)_m-CO- where m is an integer from 1 to 10 and Y₁ is H ur an alkyl or anyl containing substituent.

X² denotes Arg, N-alkylated Arg, a Arg mimetics Phe[4-guanidino] or Gly-4-piperidyl[N-amidino],

X⁸ denotes Gly, Phe, Phg, Hph, Bip, Ale, Tyr, His, Trp or Nal,

 X^9 and X^{10} denote, independent of each other, Pro, Arg, His, Ala, Phe, Glu, Leu, Val, Ile, Met, Trp, Asp or Lys and where X^8 , X^9 and X^{10} together constitute an ACE cleavage site

and wherein the residues Val and lie at position 3 and 5 respectively may optionally be replaced with amino acids capable of forming a bridging unit wherein the bridge containing a -CH₂-CH₂-, -S-CH₂-, -S-CH₂-S-, lactam or —S-S- unit,

Z forms a bond with the amino acld X¹ optionally through the linker L, and M where present denotes an imageable molety capable of detection either directly or indirectly in a diagnostic imaging procedure.

- 2. A pharmaceutical according to claim 1 wherein the amino acid of X^1 , X^2 , X^3 , X^4 ,
- X¹⁰ are independently selected from
- X1 denoting Gly
- X2 denoting Arg or N-Methyl-Arg
- Xª denoting Phe
- X^0 denoting Pro, Arg, His, Ala, Phe, Glu, Leu, Val, Ile, Met, Trp, Asp or Lys and X^{10} denoting Pro, Arg, His, Ala, Phe, Glu, Leu, Val, Ile, Met, Trp, Asp or Lys.
- A pharmaceutical according to the preceding claims further comprising one or more biomodifier groups are attached to any positions of the V and L groups of formula (I)

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- 4. A pharmaceutical according to the preceding claims wherein Z denotes a chelating agent.
- 5. A pharmaceutical according to claim 4 wherein Z denotes the chelating agent of formula (VII)

wherein:

each $R^1,\,R^2,\,R^3$ and R^4 is independently H or $C_{1\text{--}10}$ alkyl, $C_{2\text{--}10}$ alkylaryl, $C_{2\text{--}10}$ alkoxyalkyl, C_{1-10} hydroxyalkyl, C_{1-10} alkylamine, C_{1-10} fluoroalkyl, or 2 or more R groups, together with the atoms to which they are attached form a carbocyclic, heterocyclic, saturated or unsaturated ring.

- 6. A pharmaceutical according to any of the preceding claims wherein M represents an imageable moiety for the use in diagnosis particularly in in vivo diagnosis comprising a moiety which emit or cause to emit detectable radiation, a moiety which affect local electromagnetic fields, moieties which absorb or scatter radiation energy, heavy metals and compounds thereof and moieties which generate a detectable substance.
- 7. A pharmaceutical according to claim 6 wherein M represents a gamma emitting molety for Radio or SPECT imaging comprising ⁶⁷Ga, ¹¹¹In, ¹²³I, ¹²⁶I, ¹³¹I, ^{81m}Kr, ⁹⁹Mo, 98mTc, 201Tl and 133Xe.
- 8. A pharmaceutical according to claim 6 wherein M represents a radio emitter with positron emitting properties for PET imaging comprising 11C, 18F, 68Ga, 13N, 15O and ⁸²Rb.

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9. A pharmaceuticals according to claims 1 to 5 characterized by general formula (I)

Z-L-V (1)

wherein

V denotes a peptide with a binding sequence -X1-X2-Val-Tyr-lle-His-Pro-X8-X8-X10, wherein the amino acid of X^1 , X^2 , X^8 , X^{10} are independently selected from X1 denoting Gly

X² denoting Arg or N-Methyl-Arg

X8 denoting Phe

X⁹ denoting Pro, Arg, His, Ala, Phe, Glu, Leu, Val, IIe, Met, Trp, Asp or Lys and X^{10} denoting Pro, Arg, His, Ala, Phe, Glu, Leu, Val, Ile, Met, Trp, Asp or Lys . L denotes a bond or a linker selected from compounds of formula NH-(CH2)moptionally combined with -CO-(CH2)m-CO- where m denotes a positive integer from 1 to 10, one or more units of compounds of formula (IV) wherein n is an integer from 1 to 10, compounds of formula (X) or (VI)

Formula (IV)

Formula (X)

Formula (VI)

Z denotes a chelating agent of formula (VII) that optionally can carry an imaging moiety M, and one or more biomodifier groups selected from monodisperse PEG building block comprising 1 to 10 units of said building block or the compound of formula IV,

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Formula (IV)

wherein n equals an integer from 1 to 10 are attached to any positions of the V and L groups of formula (I).

- 10. Pharmaceutical formulation comprising a pharmaceutical of formula (I) of claim 1 together with one or more pharmaceutical acceptable additives and/or excipients.
- 11. A kit for the preparation of a radiopharmaceutical composition of formula (I) comprising a peptide-chelate conjugate and a reducing agent.